

NORBORNENE COMPOUND CONTAINING CHAIN POLYENE GROUP AND ITS PRODUCTION, UNSATURATED ETHYLENIC COPOLYMER USING THE SAME AND ITS PRODUCTION, AND RUBBER COMPOSITION CONTAINING THE SAME COPOLYMER

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Abstract

PROBLEM TO BE SOLVED: To obtain a new norbornene compound containing a chain polyene group, excellent in weather resisting, heat resisting and ozone resisting properties, having a rapid vulcanization rate, and capable of suitably being used for the production of the unsaturated ethylenic copolymer useful for an automobile part such as a brake part, and a heat insulating material, etc.

SOLUTION: This norbornene compound is a compound of formula I [$R<1>$ is a 1-5C alkyl; $R<2>$, $R<3>$ are each H or $R<1>$; (n) is 1-5], e.g. 5-(2-ethylidene-6-methyl-5-heptenyl)-2-norbornene. The compound of the formula I is obtained by reacting (A) a compound of formula III obtained by reacting ethylene with a compound of formula II in the presence of a catalyst consisting of a transition metal compound and an organic aluminum compound, with (B) cyclopentadiene.

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